

# List of All Chemicals

## P *Hydnocarpus wightiana* (Flacourtiaceae)

Common name(s)

Hindi Chaulmoogra

How used

Medicinal

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Plant Part	Low PPM	High PPM	StdDev	*Reference
ALEPRESTIC-ACID	Seed	--	--		*
ALEPRIC-ACID	Seed	--	--		*
ALEPROLIC-ACID	Seed	--	--		*
ALEPRYLIC-ACID	Seed	--	--		*
APIGENIN	Seed	--	--		*
<b>Activities (101)</b>					
11B-HSD-Inhibitor					
AntiADD					
AntiHIV IC72=200 ug/ml					
AntiHIV IC50=143 ug/ml					
Antiaflatoxin IC50=9.52 uM					
Antiaflatoxin IC50=2.57 ppm					
Antiaggregant					
Antiaging					
Antiallergic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).				
Antiangiogenic 4 uM					
Antiarrhythmic					
Antibacterial	Recio, M. C., Rios, J. L., and Villar, A., A review of some antimicrobial compounds isolated from medicinal plants reported in the literature 1978-1988, Phytotherapy Research, 3(4), 1989, 117-125.				
Anticancer (Lung)					
Anticomplementary					
Antidermatitic	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.				
Antiestrogenic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).				
Antiherpetic 20-54 ug/ml					
Antihistaminic IC50=10-35 uM					
Antiinflammatory #NAME?					
Antiinflammatory IC~65=1,000 uM					
Antileukemic 20-50 uM					
Antimelanomic 1-50 uM					
Antimetastatic 1-50 uM					
Antimutagenic ID50=10-40 nM	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.				
Antimutagenic ID50=0.55 ug/ml					
Antioxidant 1.5 x Vit. E					
Antioxidant IC28.5=62.5 ug/ml					
Antiperistaltic					
Antiproliferant 1-50 uM					
Antiproliferant IC50=155 uM					
Antispasmodic EC50=1-5 uM					
Antistress 10 mg/kg					
Antithyroid	Jim Duke's personal files.				
Antitumor 1-50 uM					
Antitumor (Breast) 1-50 uM					
Antitumor (Lung)					
Antitumor (Skin)					

Anxiolytic	10 mg/kg	
Apoptotic	12-60 uM	
Aromatase-Inhibitor	IC65=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Beta-Glucuronidase-Inhibitor	IC50=-40 uM	
CNS-Depressant		
COX-1-Inhibitor	IC65=1,000 uM	
COX-2-Inhibitor	IC>65=1,000 uM	
COX-2-Inhibitor	<40 uM	
COX-2-Inhibitor	IC50=<15 uM	
Calcium-Antagonist?		Biochimica & Biophysica Acta, 1115: 69, 1991.
Cancer-Preventive		Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Choleretic		
Cyclooxygenase-Inhibitor		
Cytochrome-P450-1A1-Inhibitor		
Cytotoxic	IC88=10 ug/ml	Planta Medica, 57: A113, 1991.
Cytotoxic	1-50 uM	
Cytotoxic	IC50=9.5 uM	
DNA-Protective		
Deiodinase-Inhibitor		Jim Duke's personal files.
Differentiator	MIC=30 uM	
Differentiator	IC40=40 uM	
Diuretic		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Estrogenic	EC50=0.1-25 uM/l	Journal of Medicinal Food 2: 227.1999.
Estrogenic	16% genistein	
Estrogenic	EC50=1 uM	
HIF-1alpha-Inhibitor		
Hyaluronidase-Inhibitor	IC50+=50-250 uM	
Hypotensive		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
ICAM-1-Inhibitor		
IKK-Inhibitor		
Inotropic		
Interleukin-6-Inhibitor		
MAO-Inhibitor		
MAPK-Inhibitor		
Musculotropic		Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Mutagenic		
Myorelaxant		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
NADH-Oxidase-Inhibitor		
NF-kB-Inhibitor		
NO-Synthase-Inhibitor	5-50 uM	
Nodulation-Signal		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Ornithine-Decarboxylase-Inhibitor		
P21-Inducer	10-70 uM	
PKC-Inhibitor	IC50=10 uM	
PTK-Inhibitor	10-100 uM	
Pesticide		
Polyamine-Synthesis-Inhibitor		
Progesterational		
Protein-Kinase-C-Inhibitor	IC50=10-40 uM	
Quinone-Reductase-Inducer	20 uM	Uda, Y., Price, K. R., Williamson, G., Rhodes, M. J. C. 1997. Induction of the Anticarcinogenic Marker Enzyme, Quinone Reductase, in Murine Hepatoma Cells In Vitro by Flavonoids. <i>Cancer Lett.</i> , 120 (2): 213-216.
Radioprotective		
Sedative	30-100 mg/kg	
Sunscreen		
TNF-alpha-Inhibitor	IC50=3.27 uM	
Topoisomerase-I-Inhibitor		Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. <i>Toxicol Ind Health</i> , 14: 223-237.
Topoisomerase-II-Inhibitor	50 ug/ml	Azuma, Y., Onishi, Y., Sato, Y., Kizaki, H. 1995. Effects of Protein Tyrosine Kinase Inhibitors With Different Modes of Action on Topoisomerase Activity and Death of IL-2-Dependent CTLL-2-Cells. <i>J Biochemistry</i> , 118: 312-318.

IC<sub>20</sub>=10 uMTopoisomerase-II-Inhibitor  
IC<sub>45</sub>=180 uMUterotrophic EC<sub>50</sub>=0.1-25 uM/Journal of Medicinal Food 2: 227.1999.VEGF-Inhibitor IC<sub>50</sub>=2-7 uM

Vasodilator

Xanthine-Oxidase-Inhibitor  
0.36 uMiNOS-Inhibitor IC<sub>50</sub>=<15 uM

ARACHNIC-ACID	Seed	--	--	*
ASH	Seed	--	38300.0	-0.29
BETULINIC-ACID	Seed	--	--	Jim Duke's personal files.

**Activities (22)**

Anthelmintic

AntiHIV EC<sub>50</sub>=2.0 ug/ml Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.AntiHIV IC<sub>50</sub>=6.5 ug/ml

AntiHIV 14.8 uM

Antibacterial

Anticancer Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor &amp; Frost, London. 791 pp.

Anticarcinomic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor &amp; Frost, London. 791 pp.

Antiedemic

Antiinflammatory Recio, M., et al. 1994. Investigations on the Steroidal Anti-Inflammatory Activity of Triterpenoids from *Diospyros leucomelas*\*. Planta Medica, 61: 9.

Antileukemic

Antimalarial IC<sub>50</sub>=19-26 ug/ml

Antimelanomic New York Times, 3/28/95.

Antinociceptive

Antiplasmodial IC<sub>50</sub>=19-26 ug/ml

Antitumor Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor &amp; Frost, London. 791 pp.

Antiviral 14.8 uM

Apoptotic

Cytotoxic 50-100 ppm Biosyn. Prod. Cancer Chemotherapy (Petit et al)

Cytotoxic 16.4 uM

Phospholipase-A2-Inhibitor

Prostaglandin-Synthesis-Inhibitor 200 ug/ml Dunstan, C. A., Liu, B., Welch, C. J., Perera, P., Bohlin, L. 1998. Alphitol, a Phenolic Substance from *Alphitonia zizyphoides* which Inhibits Prostaglandin Biosynthesis in vitro. Phytochemistry, 48(3): 495-497.Prostaglandin-Synthesis-Inhibitor IC<sub>50</sub>=101 uMHuang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from *Menyanthes trifoliata* L. Yao Hsueh Hsueh Pao, 30(8): 621-626.

BETULINIC-ACID	Stem Bark	--	66.6	-0.4	Jim Duke's personal files.
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**Activities (22)**

Anthelmintic

AntiHIV EC<sub>50</sub>=2.0 ug/ml Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.AntiHIV IC<sub>50</sub>=6.5 ug/ml

AntiHIV 14.8 uM

Antibacterial

Anticancer Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor &amp; Frost, London. 791 pp.

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Antiedemic

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Antileukemic

Antimalarial IC<sub>50</sub>=19-26 ug/ml

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Antinociceptive

Antiplasmodial IC<sub>50</sub>=19-26 ug/ml

Antitumor Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor &amp; Frost, London. 791 pp.

Antiviral 14.8 uM

Apoptotic

Cytotoxic 16.4 uM					
Phospholipase-A2-Inhibitor					
Prostaglandin-Synthesis-Inhibitor 200 ug/ml	Dunstan, C. A., Liu, B., Welch, C. J., Perera, P., Bohlin, L. 1998. Alphitol, a Phenolic Substance from <i>Alphitonia zizyphoides</i> which Inhibits Prostaglandin Biosynthesis in vitro. <i>Phytochemistry</i> , 48(3): 495-497.				
Prostaglandin-Synthesis-Inhibitor IC50=101 uM	Huang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from <i>Menyanthes trifoliata</i> L. <i>Yao Hsueh Hsueh Pao</i> , 30(8): 621-626.				

BETULINIC-ACID	Leaf	--	48.8	-0.98	Jim Duke's personal files.
<b>Activities (22)</b>					
Anthelmintic					
AntiHIV EC50=2.0 ug/ml	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. <i>J. Nat. Prod.</i> , 61 (9): 1090-1095.				
AntiHIV IC50=6.5 ug/ml					
AntiHIV 14.8 uM					
Antibacterial					
Anticancer	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.				
Anticarcinomic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.				
Antiedemic					
Antiinflammatory	Recio, M., et al. 1994. Investigations on the Steroidal Anti-Inflammatory Activity of Triterpenoids from <i>Diospyros leucomelas</i> *. <i>Planta Medica</i> , 61: 9.				
Antileukemic					
Antimalarial IC50=19-26 ug/ml					
Antimelanomic	New York Times, 3/28/95.				
Antinociceptive					
Antiplasmoidal IC50=19-26 ug/ml					
Antitumor	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.				
Antiviral 14.8 uM					
Apoptotic					
Cytotoxic 50-100 ppm	Biosyn. Prod. Cancer Chemotherapy (Petit et al)				
Cytotoxic 16.4 uM					
Phospholipase-A2-Inhibitor					
Prostaglandin-Synthesis-Inhibitor 200 ug/ml	Dunstan, C. A., Liu, B., Welch, C. J., Perera, P., Bohlin, L. 1998. Alphitol, a Phenolic Substance from <i>Alphitonia zizyphoides</i> which Inhibits Prostaglandin Biosynthesis in vitro. <i>Phytochemistry</i> , 48(3): 495-497.				
Prostaglandin-Synthesis-Inhibitor IC50=101 uM	Huang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from <i>Menyanthes trifoliata</i> L. <i>Yao Hsueh Hsueh Pao</i> , 30(8): 621-626.				

CHAULMOOGRIC-ACID	Seed	--	170775.0	1.0	*
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<b>Activities (3)</b>					
Antibacterial MIC=32-64 ug/ml	Martindale's 28th				
Antileptic	Iwu, M.M. 1993. <i>Handbook of African Medicinal Plants</i> . CRC Press, Boca Raton, FL 435 pp.				
Antisarcoidotic	Merck 11th Edition				

CHRYSOERIOL	Seed	--	--	--	*
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<b>Activities (7)</b>					
Aldose-Reductase-Inhibitor IC31=10 uM	Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888.				
Anticomplementary					
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.				
Antioxidant					
Antirhinoviral	Economic & Medicinal Plant Research, 5: 197.				
Antiviral	Economic & Medicinal Plant Research, 5: 197.				
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.				

DIHYDROCHAULMOOGRIC-ACID	Seed	--	--	--	*
DIHYDROHYDNOCARPIC-ACID	Seed	--	--	--	*
FAT	Seed	--	632500.0	1.93	*
GORLIC-ACID	Seed	--	77165.0	-1.0	*
HYDNOCARPIC-ACID	Seed	--	308000.0	1.0	*

<b>Activities (3)</b>					
Antibacterial	Merck 11th Edition				
Antileptic					
Pesticide					

HYDNOCARPIN	Fruit	--	--	*
ISOGALEIC-ACID	Seed	--	--	*
LEUCOPELARGONIDIN	Fruit	--	--	*
<b>Activities (1)</b>				
Antineoplastic				
LICHENIN	Fruit	--	--	*
LUTEOLIN	Seed	--	--	*
<b>Activities (78)</b>				
Aldose-Reductase-Inhibitor EC=3 ppm	Shin*, K.H., Chung, M.S., Chae, Y.J., Yoon, K.Y., Cho, T.S. 1992. A survey for aldose reductase inhibition of herbal medicines. <i>Fitoterapia</i> 64(2): 130, 1993.			
Aldose-Reductase-Inhibitor IC50=0.45 uM rat				
AntiHIV				
Antiallergic				
Antiangiogenic IC60-75=10 <sup>1</sup> uM				
Antatherogenic				
Antibacterial MIC=500 ug/ml	Planta Medica, 57: A43, 1991.			
Anticarcinogenic				
Anticarcinomic	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Anticataract EC=3 ppm	Shin*, K.H., Chung, M.S., Chae, Y.J., Yoon, K.Y., Cho, T.S. 1992. A survey for aldose reductase inhibition of herbal medicines. <i>Fitoterapia</i> 64(2): 130, 1993.			
Anticomplementary				
Antidermatic	Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp.			
Antiestrogenic				
Antifeedant IC52=<1,000 ppm diet	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices &amp; Medicinal Plants: Recent Advances in Botany, Horticulture, &amp; Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp.			
Antiherpetic 11-23 ug/ml				
Antihistaminic <10-15 uM				
Antiinflammatory #NAME?	Wichtl, M. 1984. <i>Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart</i> . 393 pp.			
Antileukemic 20-50 uM				
Antilymphomeric	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Antimelanomic	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Antimutagenic ID50=2-5 nM				
Antimutagenic ID50=0.44 ug/ml				
Antinociceptive				
Antioxidant IC50=10 uM				
Antipolio	Economic & Medicinal Plant Research, 5: 197.			
Antiproliferant				
Antispasmodic	Williamson, E. M. and Evans, F. J. <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.			
Antitumor 1-50 uM				
Antitumor (Colon)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Antitumor (Kidney)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Antitumor (Lung)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Antitumor (Ovary)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Antitumor (Pancreas)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Antitumor (Skin) 20 uM				
Antitumor (Stomach)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Antitumor (Thyroid) 12-50 uM				
Antitumor (brain)	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Antitussive				
Antiviral 11-23 ug/ml				
Aphidifuge				
Apoptotic 12-50 uM				
Aromatase-Inhibitor IC35=1 uM/l	Journal of Medicinal Food 2: 235.1999.			
Beta-Glucuronidase-Inhibitor IC50=~40 uM				

IC50=1.2 uM rbt	
Cancer-Preventive	
Chemopreventive	
Choleretic	
Cytotoxic 1-50 uM	
Deiodinase-Inhibitor	Jim Duke's personal files.
Differentiator IC>40=40 uM	
Diuretic	Jim Duke's personal files.
Estrogenic 58% genistein	
Hepatoprotective	
Hyaluronidase-Inhibitor	
IC50+=100-250 uM	
Hypocholesterolemic	
ICAM-1-Inhibitor	
IKK-Inhibitor	
Iodothyronine-Deiodinase-Inhibitor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Lipoxygenase-Inhibitor	
MAPK-Inhibitor	
MMP-9-Inhibitor 20 uM	
Metalloproteinase-Inhibitor	
Myorelaxant	
NEP-Inhibitor IC50=>42 uM	
NF-kB-Inhibitor	
NO-Inhibitor	
PTK-Inhibitor 10-100 uM	
Pesticide	
Proliferant	
Prostaglandin-Synthetase-Inhibitor	
Protein-Kinase-C-Inhibitor	
IC70=50 uM	
Succinoxidase-Inhibitor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
TNF-alpha-Inhibitor	
IC50=14.44 uM	
Topoisomerase-I-Inhibitor	Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. <i>Toxicol Ind Health</i> , 14: 223-237.
VEGF-Inhibitor IC50=2-7 uM	
Vasodilator	
Xanthine-Oxidase-Inhibitor	Chem. & Pharm. Bull. 38: 1772.
IC50=0.11 ug/ml	
iNOS-Inhibitor	

OLEIC-ACID	Seed	--	41110.0	-0.64	*
<b>Activities (18)</b>					
5-Alpha-Reductase-Inhibitor					
Allergenic					
Alpha-Reductase-Inhibitor					
Anemiogenic					
Antialope cic					
Antiandrogenic					
Antiinflammatory					
IC50=21 uM					
Antileukotriene-D4					
IC50=21 uM					
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.				
Choleretic 5 ml/man					
Dermatitogenic					
FLavor FEMA 1-30	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press, Boca Raton, FL. 233 pp.)				
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.				
Irritant	Merck 11th Edition				
Percutaneostimulant	Seki, T., Toeda, C., Kawaguchi, T., Juni, K., Sugabayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. <i>Chem. Pharm. Bull.</i> 38(11): 3086-3089, 1990.				
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				
Propecic					

PALMITIC-ACID	Seed	--	11385.0	-0.46	*
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**Activities (13)**

5-Alpha-Reductase-Inhibitor	
Antialope cic	
Antiandrogenic	
Antifibrinolytic	Economic & Medicinal Plant Research, 1: 53.
Antioxidant IC40=60	
FLavor FEMA 1	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Hemolytic	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Hypercholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Lubricant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Nematicide	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Pesticide	
Propecic	
Soap	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

## STARCH

Fruit

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**Activities (5)**

Absorbent	Martindale's 29th
Antidote (Iodine)	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antinesidioblastosic	Martindale's 29th
Emollient	Martindale's 29th
Poultice	Martindale's 29th

## TARAKTOGENIC-ACID

Seed

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\*

## WATER

Seed

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84800.0

-0.55

\*